



Short on space. Long on power protection.

N1C LS and LSE Series Short-Depth Lithium-Ion UPS

1-3kVA Online Double Conversion UPS with Internal Batteries

Features

Capacities: 1, 1.5, 2 & 3 kVA UPS; 110–120VAC, internal and external batteries

Compact: 11.8" deep — perfect for wall-mount racks and small IDF switch stacks

Quiet: Only 41dB @ 1 meter for ultra quiet operation in occupied spaces

Life Cycle: 10+ year design life (at 77°F) & 2000+ charge/discharge cycles

Online Topology: Protection from 9 power problems, 0ms transfer time

Smart Outlets: Programmable outlets banks

Industry-Leading Warranty: 10-Year Electronics & Battery Warranty (USA/Canada)

Includes: SNMP Card, Monitoring Software, Rail Kits, Tower Feet

Benefits



High Power Density

Get more energy in less space. Lithium-Ion provides more power where you need it and longer backup times for your critical loads.



Safe and Reliable

Includes LiFePO4 battery chemistry and integrated battery management system.



Heat Tolerant

LiFePO4 offers better performance over VRLA in high temp environments.



Longer Life Span

Has up to 15-year battery life and supports 10x more discharge cycles over VRLA.



Environmentally Friendly

Charge them faster. Replace them less often. Lithium-Ion solutions require less energy to transport, operate and maintain.



Lower Costs

Longer life and fewer replacements means money saved and lower TCO.

LS and LSE Series: 1-3kVA Short Depth Lithium-Ion UPS Systems

		Internal Battery Models		Internal + External Battery Models			
Model		N1C.LS1000	N1C.LS1500	N1C.LSE1000	N1C.LSE1500	N1C.LSE2000	N1C.LSE3000
Input	Voltage (VAC)	100/110/120/125/127		100/110/120/125/127			
	Frequency (Hz)	40-70Hz		40-70Hz			
	Input Cord (9')	5-15P	5-15P	5-15P	5-15P	5-20P	L5-30P
Output	Capacity (VA/W)	1000/900	1500/1350	1000/900	1500/1350	2000/1800	3000/2700
	Power Factor	0.9		0.9			
	Voltage (VAC)	100~/110/115/120/125 ±1% (Selectable)					
	Frequency (Hz)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz					
	Harmonic Distortion	≤2 % THD (Linear Load) ; ≤4 % THD (Non-linear Load)					
	Transfer Time	0 ms AC to battery, <4ms inverter to bypass, 8ms ECO to battery					
	Overload / AC	100% - ≤110% Continuous, 110% - ≤130% for 5 min, 130% - ≤140% for 30 sec, >140% for 1.5 sec.					
	Overload / Batt	100% - ≤110% Continuous, 110% - ≤130% for 1 min, 130% - ≤140% for 2 sec, >140% for 1.5 sec.					
	Receptacles	(8) 5-15R	(8) 5-15R	(8) 5-15R	(8) 5-15R	(8) 5-15/20R	(6) 5-15/20R, (1) L5-30R
Battery	Voltage (VDC)	25.6V	38.4V	38.4	38.4V	51.2	51.2V
	Battery Capacity	6Ah	6Ah	5.2Ah	5.2Ah	5Ah	5Ah
	External Battery	No		Yes (up to 4x)			
	Charger Current	2A		2A/4A (selectable)			
	Recharge Time	~2 Hours to 90%, 3 hours to full					
Efficiency		90% AC mode, ≥96% ECO mode, ~88% Battery mode (@ full load)					
Communications		SNMP Network Card, EPO, USB, RS232, Dry contact (optional)					
Ruggedized		Conformal Coating Spray on Circuit Boards					
Software		Multi-UPS Monitoring, Safe Shutdown, Network Config Tool Included (License Free, Windows OS)					
Topology		Online Double Conversion (Pure Sine Wave on Online and Battery Mode)					
Indicators		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator via LCD					
Alarm		Battery mode, Low battery, Overload, Fault					
Protection		Low Battery, Overload, Short-circuit and Over Temperature					
Temperature		32-122°F					
Humidity		20~95%, Non-condensing					
Sound Level		41dBA @ 1 meter					
Certifications		UL1778, CSA 22.2, NO. 107.3-14, CFR 47 FCC Part 15, Subpart B, Class A, Comply to Energystar 2.0, UL1973 (batt), IEC62619					
Dimensions (HxWxD)		3.4" (2U) x 17.2" x 11.9"		3.4" (2U) x 17.2" x 11.8"		3.4" (2U) x 17.2" x 14.9"	
Weight (lb)		18.5	20.5	26.7	27.1	32.2	34.2
EBM Dimensions		N/A	N/A	3.4" (2U) x 17.2" x 11.8"		3.4" (2U) x 17.2" x 14.9"	
EBM Weight		N/A	N/A	24.7		32.8	

Specifications are subject to change without prior notice. ^ Derate capacity to 90% * Runtime may vary based on conditions and age of battery. Artwork is for reference only. Actual units may look different.

	External Battery Packs									
	Internal Batteries		1		2		3		4	
Percent Load	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
N1C.LS1000	16	7.5	—	—	—	—	—	—	—	—
N1C.LS1500	16	7.5	—	—	—	—	—	—	—	—
N1C.LSE1000	19	9.5	58.5	29.3	99.9	49.9	143.1	71.6	188.3	94.2
N1C.LSE1500	12.7	6.3	39.0	19.5	66.7	33.3	95.4	47.7	125.5	62.8
N1C.LSE2000	11.7	5.9	36.1	18.1	61.6	30.8	88.4	44.2	116.2	58.1
N1C.LSE3000	7.3	3.8	22.6	11.3	38.7	19.3	55.5	27.7	73.1	36.5